SEQUENCE LISTING

<110> Bayer Aktiengesellschaft											
<120> Ultraspiracle (USP) protein from Heliothis virescens											
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<151> 2000-07-25											
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ata and tog got one one the one one one one one one one one one on	96										
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Glu Gly Gly Phe Met Ser Pro Met Ser Pro Pro Glu Met Lys Pro Asp											
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									cac His		336
									gta Val		384
									aaa Lys		432
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									agc Ser		816

		Met					Leu				ggc Gly					864
		275					280					285				
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Leu	290	ьец	Pne	Ala	iie	295	Trp	Arg	ser	Met	Glu 300	Phe	Leu	Thr	Glu	
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GIn	Leu	Met	Cys	Leu 325	Met	Pro	Gly	Met		Leu	His	Arg	Asn		Ala	
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Leu	Leu	Leu		Leu	Pro	Ala	Leu		Ser	Ile	Ser	Leu		Ser	Phe	
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Leu Thr Tyr Ala Cys Arg Glu Glu Arg Asn Cys Ile Ile Asp Lys Arg 145 150 155 160

Gln Arg Asn Arg Cys Gln Tyr Cys Arg Tyr Gln Lys Cys Leu Ala Cys $165 \hspace{1.5cm} 170 \hspace{1.5cm} 175$

Gly Met Lys Arg Glu Ala Val Glu Glu Glu Arg Gln Arg Ala Ala Arg \$180\$ \$185\$

Gly Thr Glu Asp Ala His Pro Ser Ser Ser Val Gln Val Gln Glu Leu

195 200 205

Ser Ile Glu Arg Leu Leu Glu Met Glu Ser Leu Val Ala Asp Pro Ser 210 215 220

Glu Glu Phe Gln Phe Leu Arg Val Gly Pro Asp Ser Asn Val Pro Pro 225 230 235 240

Lys Phe Arg Ala Pro Val Ser Ser Leu Cys Gln Ile Gly Asn Lys Gln 245 250 255

Ile Ala Ala Leu Val Val Trp Ala Arg Asp Ile Pro His Phe Ser Gln 260 265 270

Leu Glu Met Glu Asp Gln Ile Leu Leu Ile Lys Gly Ser Trp Asn Glu 275 280 285

Leu Leu Leu Phe Ala Ile Ala Trp Arg Ser Met Glu Phe Leu Thr Glu 290 295 300

Glu Arg Asp Gly Val Asp Gly Thr Gly Asn Arg Thr Thr Ser Pro Pro $_{305}$ 310 315 320

Gln Leu Met Cys Leu Met Pro Gly Met Thr Leu His Arg Asn Ser Ala \$325\$

Leu Gln Ala Gly Val Gly Gln Ile Phe Asp Arg Val Leu Ser Glu Leu \$340\$ \$350\$

Ser Leu Lys Met Arg Thr Leu Arg Val Asp Gln Ala Glu Tyr Val Ala \$355\$ \$360\$ \$365\$

Leu Lys Ala Ile Ile Leu Leu Asn Pro Asp Val Lys Gly Leu Lys Asn 370 375 380

Arg Gln Glu Val Glu Val Leu Arg Glu Lys Met Phe Leu Cys Leu Asp 385 390 395 400

Glu Tyr Cys Arg Arg Ser Arg Ser Ser Glu Glu Gly Arg Phe Ala Ala
405 410 415

Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile Ser Leu Lys Ser Phe \$420\$ \$425\$ \$430

Glu His Leu Phe Phe Phe His Leu Val Ala Asp Thr Ser Ile Ala Gly 435 440 445

Tyr Ile Arg Asp Ala Leu Arg Asn His Ala Pro Pro Ile Asp Thr Asn

Met Met

TOATON TOATON